

531,116

(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property
Organization
International Bureau



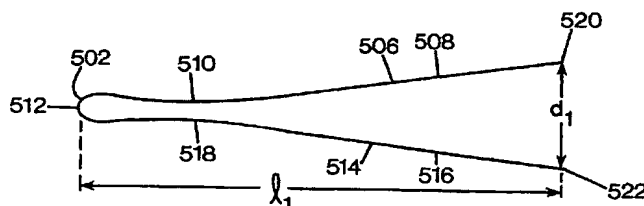
(43) International Publication Date
10 June 2004 (10.06.2004)

PCT

(10) International Publication Number
WO 2004/047579 A1

- (51) International Patent Classification⁷: **A43B 13/18**, 21/30, 21/32, A61F 2/66
- (21) International Application Number: **PCT/US2003/031864**
- (22) International Filing Date: **8 October 2003 (08.10.2003)**
- (25) Filing Language: **English**
- (26) Publication Language: **English**
- (30) Priority Data:
60/319,731 25 November 2002 (25.11.2002) **US**
- (71) Applicant (for all designated States except US): **TRACK-GUARD INC.** [US/US]; Fasth Law Offices, 629 E. Boca Raton Road, Phoenix, AZ 85022 (US).
- (72) Inventors; and
- (75) Inventors/Applicants (for US only): **LINDH, Leif** [SE/SE]; Box 3001, S-182 03 Danderyd (SE). **LINDQVIST, Wilhelm, Ove** [SE/SE]; Karlbergsvagen 76, S-113 35 Stockholm (SE). **LINDH, Kjell** [SE/SE]; Box 3001, S-182 03 Danderyd (SE). **LARSSON, Hans** [SE/SE]; Boo Gard 1, S-595 91 Mjölby (SE).
- (74) Agent: **FASTH, Rolf**; Fasth Law Offices, 629 E. Boca Raton Road, Phoenix, AZ 85022 (US).
- (81) Designated States (national): **AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.**
- (84) Designated States (regional): **ARIPO patent (GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).**
- Published:
— with international search report
— with amended claims
- For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

(54) Title: **SHOE SYSTEM WITH A RESILIENT SHOE INSERT**



(57) Abstract: The method is for using a shoe system having a resilient shoe insert. A shoe (300) has a shoe insert (500) disposed inside the shoe. The insert has an upper leg (506) and a lower leg (514) connected by a front end (502) with a curvature (512). The legs (506, 514) have a concave segments (510, 518) and end points (520, 522), respectively. A load is put on the insert to compress the end points towards one another. This shortens the effective length of the legs (506, 514) because the legs are in contact at a contact segment (524). This makes the insert stiffer the more it is compressed. The effective length of the legs is shorter at the outside (530) compared to the inside (532) so that the outside is stiffer than the inside.

WO 2004/047579 A1